

Input Set: I692401.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

1 <110> APPLICANT: Heidecker, Leonora
2 van den Eynde, Benot
3 Boon-Falleur, Thierry
4 Brasseur, Francis
5 <120> TITLE OF INVENTION: MAGE-A12 ANTIGENIC PEPTIDES AND USES THEREOF
6 <130> FILE REFERENCE: L0461/7097
7 <140> CURRENT APPLICATION NUMBER: US/09/692,401
8 <141> CURRENT FILING DATE: 2000-10-19
9 <150> EARLIER APPLICATION NUMBER: US 60/160,374
10 <151> EARLIER FILING DATE: 1999-10-19
11 <150> EARLIER APPLICATION NUMBER: US 60/179,570
12 <151> EARLIER FILING DATE: 2000-02-01
13 <160> NUMBER OF SEQ ID NOS: 56
14 <170> SOFTWARE: FastSEQ for Windows Version 3.0
15 <210> SEQ ID NO 1
16 <211> LENGTH: 4523
17 <212> TYPE: DNA
18 <213> ORGANISM: Homo sapiens
19 <220> FEATURE:
20 <221> NAME/KEY: CDS
21 <222> LOCATION: (2960)...(3904)
22 <400> SEQUENCE: 1
23 tggcctggga cccgcagcca ttctctacaa ggggtgcagc tgtgcaaagt cacagacgtt 60
24 acagaaacag agtatctcct gccaatcact tcatccaaca gccaggagtg aggaagagga 120
25 ccctcttgag tgaggactga gggtcacccc tccccacgt agtgaccaca gaatccagct 180
26 cagtccctct tgtcagccct gctaaactta ggcaataatg tcaccccgac cgcacccctc 240
27 cccagtgcc acttcagggg gactcagagt cagagacttg gtctgagggg agcagacaca 300
28 atcggcagag gatggcggtc caggctcagc ctggcatcca agtcaggacc ttgagggatg 360
29 accaaaggcc cctcccaccc ccaactcccc caaccccacc aggatctaca gcctcatgat 420
30 ccccgctcct atccctaccc ctacccccaa caccatcttc atcgttacct ccacctccat 480
31 ctggatcccc atccaggaag aatccagttc cacccttgct gtgaacccag ggaagtcacg 540
32 gggccggatg tgacgccact gacttgcgcg ttggagggtca gagaacagcg agattctcgc 600
33 cctgagcaac ggcctgacgt cggcggaggg aagcaggcgc aggctccgtg aggaggcaag 660
34 gtaagatgcc gagggaggac tgaggcgggc ctcacccag acagagggcc cccaataatc 720
35 cagcgtgcc tctgctgcca ggcctggacc accctgcagg ggaagacttc tcaggctcag 780
36 tcgccaccac ctcacccgc cccccccgc cgctttaacc gcagggaact ctggtgtaag 840
37 agctttgtgt gaccagggca gggctggtta gaagtgtca gggcccagac tcagccagga 900
38 atcaagggtc ggacccaag aggggactga gggtaacccc ccgcacccc caccaccatt 960
39 cccatcccc aacaccaacc ccacccccat cccccaacac caaacccacc accatcgctc 1020
40 aaacatcaac ggcaccccca aaccccgatt cccatcccca cccatcctgg cagaatcgga 1080
41 gctttgcccc tgcaatcaac ccacggaagc tccgggaatg gcggccaagc acgcggatcc 1140
42 tgacgttcac atctgtggct caggggagga agggggtcgg tatcgtgagt acggcctttg 1200
43 ggaagcagag gatgggcccc agcccctcct ggaagataat ggagtccgga gggctccag 1260
44 catgccagga caggggcccc aagtaccct gtctcaaact gagccacctt ttcattcggc 1320

Input Set: I692401.RAW

45	cgcggaatc	ctagggatac	agaccactt	cagcagggag	ttggagccca	gccctgcgag	1380
46	gagtcaaggg	gaggaagaag	agggaggact	gaggggacct	tggagtccag	atcagtggca	1440
47	accttgggct	gggggatcct	gggcacagtg	gcctaattgtg	ccccatgctc	attgcgactt	1500
48	cagggtgaca	gatttgcggg	ctgtggtctg	aggagtggca	cttcaggtca	gcagagggag	1560
49	gaatcccagg	atctgccgga	cccaagggtg	gcccccttta	tgaggactgg	ggataccccc	1620
50	ggcccagaaa	gaagggatgc	cacagagtct	ggctgtccct	tattcttagc	tctaagggaa	1680
51	ccggatcaga	gatagctcca	attggcaatc	tcatttgtac	cacaggcagg	aggttgggga	1740
52	accctcaggg	agataagggtg	ttggtgtaaa	gaggagctgt	ctgctcattt	caggggggtg	1800
53	ggggttgagg	aagggcagtc	ccggcgagga	gtaaagatga	gtaaccacac	ggaggccatc	1860
54	agaagcctca	ccctagaacc	aaaggggtca	gccctggaca	acctacctgg	gagtgcacag	1920
55	atgtggctcc	tcctcacttc	tgtttccaga	tctcagggag	ttgaggtcct	tttcttcaga	1980
56	gggtgactca	ggtcaacaca	ggggccccc	tgtagtcgac	agacacagtg	gtcctaagat	2040
57	ctaccaagca	tccaggtgag	aagcctgagg	taggattgag	ggtacccctg	ggccagaacg	2100
58	ctgacagagg	gcccacaga	aatctgccct	gcccctgcta	ttccctcaga	gagcctgggg	2160
59	caaggctacc	tgctgaggtc	cctccattat	cctgggatct	ttgatgtcag	ggaaagggag	2220
60	gccttgggtc	gaaggggctg	cactcaggtc	actagacgga	ggttctcagg	ccctagcagg	2280
61	agtagtggtg	aggaccaagc	aggctcgtca	cccaggacac	ctggactcca	atgaatttgg	2340
62	acatctctca	ttgtcctttg	tgggaggatc	tggttatgta	tggccagatg	ttggtcccct	2400
63	catatccttc	tgtaccgtat	cagggatgtg	aattcttgcc	atgagagttt	ctttggccag	2460
64	caaaagggcg	gtattaggcc	ctgcaaggag	aaaggtgagg	gccctgagtg	agcacagaag	2520
65	gaccctccac	cccagtagag	tggggacctc	acagagtctg	gccgaccctc	ctgacaattt	2580
66	tgggaatctg	tggctgtact	tgagtcctgc	accctgaggc	ccatggattc	ctctcctagg	2640
67	aatcaggagt	tccaagaaca	aggcagtgag	gccttgggtc	gaggcagtg	cctgaggtca	2700
68	cagagcagag	ggggtgcaga	cagtgcgaac	actgaagggt	tgccttgaat	gcacaccaag	2760
69	cgcaccggcc	ccagaacaca	tggactccag	agggcctggc	ctcaccctcc	ctactgtcat	2820
70	tccttcagcc	tcagcatgtg	ctggccggct	gtaccctgag	gcgccctctc	acttgttcc	2880
71	tcaggttctg	aggagacagg	ccccggagca	gcactagctc	ctgcccacac	tcctacctgc	2940
72	tgccctgacc	agagtcac	atg cca ctt	gag cag agg	agt cag cac	tgc aag	2992
73			Met Pro Leu Glu Gln Arg Ser Gln His Cys Lys				
74			1	5		10	
75	cct gag gaa ggc ctt	gag gcc caa gga	gag gcc ctg ggc	ttg gtg ggt			3040
76	Pro Glu Glu Gly Leu	Glu Ala Gln Gly	Glu Ala Leu Gly	Leu Val Gly			
77		15	20	25			
78	gcg cag gct cct	gct act gag gag	cag gag act gcc	tcc tcc tcc tct			3088
79	Ala Gln Ala Pro	Ala Thr Glu Glu	Gln Glu Thr Ala	Ser Ser Ser Ser			
80		30	35	40			
81	act cta gtg gaa	gtc acc ctg cgg	gag gtg cct gct	gcc gag tca cca			3136
82	Thr Leu Val Glu	Val Thr Leu Arg	Glu Val Pro Ala	Ala Glu Ser Pro			
83		45	50	55			
84	agt cct ccc cac	agt cct cag gga	gcc tcc acc ctc	ccc act acc atc			3184
85	Ser Pro Pro His	Ser Pro Gln Gly	Ala Ser Thr Leu	Pro Thr Thr Ile			
86		60	65	70	75		
87	aac tat act ctc	tgg agt caa tcc	gat gag ggc tcc	agc aac gaa gaa			3232
88	Asn Tyr Thr Leu	Trp Ser Gln Ser	Asp Glu Gly Ser	Ser Ser Asn Glu	Glu		
89		80	85	90			
90	cag gaa ggg cca	agc acc ttt cct	gac ctg gag acg	agc ttc caa gta			3280
91	Gln Glu Gly Pro	Ser Thr Phe Pro	Asp Leu Glu Thr	Ser Phe Gln Val			
92		95	100	105			
93	gca ctc agt agg	aag atg gct gag	ttg gtt cat ttt	ctg ctc ctc aag			3328
94	Ala Leu Ser Arg	Lys Met Ala Glu	Leu Val His Phe	Leu Leu Leu Lys			

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/692,401

DATE: 11/07/2000
TIME: 17:55:30

Input Set: I692401.RAW

95		110		115		120		
96	tat	cga gcc agg gag cca ttc	aca aag gca gaa atg	ctg ggg agt gtc				3376
97	Tyr	Arg Ala Arg Glu Pro Phe Thr	Lys Ala Glu Met Leu Gly Ser Val					
98		125		130		135		
99	atc	aga aat ttc cag gac ttc ttt	cct gtg atc ttc agc aaa gcc tcc					3424
100	Ile	Arg Asn Phe Gln Asp Phe Phe	Pro Val Ile Phe Ser Lys Ala Ser					
101		140		145		150		155
102	gag	tac ttg cag ctg gtc ttt ggc	atc gag gtg gtg gaa gtg gtc	cg				3472
103	Glu	Tyr Leu Gln Leu Val Phe Gly	Ile Glu Val Val Glu Val Val Arg					
104			160		165		170	
105	atc	ggc cac ttg tac atc ctt gtc	acc tgc ctg ggc ctc tcc tac gct					3520
106	Ile	Gly His Leu Tyr Ile Leu Val	Thr Cys Leu Gly Leu Ser Tyr Ala					
107			175		180		185	
108	ggc	ctg ctg ggc gac aat cag atc	gtg ccc aag aca ggc ctc ctg ata					3568
109	Gly	Leu Leu Gly Asp Asn Gln Ile	Val Pro Lys Thr Gly Leu Leu Ile					
110			190		195		200	
111	atc	gtc ctg gcc ata atc gca aaa	gag ggc gac tgt gcc cct gag gag					3616
112	Ile	Val Leu Ala Ile Ile Ala Lys	Glu Gly Asp Cys Ala Pro Glu Glu					
113			205		210		215	
114	aaa	atc tgg gag gag ctg agt gtg	ttg gag gca tct gat ggg agg gag					3664
115	Lys	Ile Trp Glu Glu Leu Ser Val	Leu Glu Ala Ser Asp Gly Arg Glu					
116			220		225		230	235
117	gac	agt gtc ttt gcg cat ccc agg	aag ctg ctc acc caa gat ttg gtg					3712
118	Asp	Ser Val Phe Ala His Pro Arg	Lys Leu Thr Gln Asp Leu Val					
119			240		245		250	
120	cag	gaa aac tac ctg gag tac cgg	cag gtc ccc ggc agt gat cct gca					3760
121	Gln	Glu Asn Tyr Leu Glu Tyr Arg	Gln Val Pro Gly Ser Asp Pro Ala					
122			255		260		265	
123	tgc	tac gag ttc ctg tgg ggt cca	agg gcc ctc gtt gaa acc agc tat					3808
124	Cys	Tyr Glu Phe Leu Trp Gly Pro	Arg Ala Leu Val Glu Thr Ser Tyr					
125			270		275		280	
126	gtg	aaa gtc ctg cac cat ttg cta	aag atc agt gga ggg cct cac att					3856
127	Val	Lys Val Leu His His Leu Leu	Lys Ile Ser Gly Gly Pro His Ile					
128			285		290		295	
129	ccc	tac cca ccc ctg cat gaa tgg	gct ttt aga gag ggg gaa gag tga					3904
130	Pro	Tyr Pro Pro Leu His Glu Trp	Ala Phe Arg Glu Gly Glu Glu					
131			300		305		310	
132	gtctgagcac	gagttgcagc	cagggccagt	gggagggagt	ctgggccagt	gcaccttcca		3964
133	aggccctatc	cattagtttc	cactgcctcg	tgtgacatga	ggccattct	tcactctttg		4024
134	aagagagcag	tcagtattgt	tagtagtgag	tttctgttct	attggatgac	tttgagattt		4084
135	atctttgttt	cctgttggaa	ttgttcaa	at	acggatgggt	gaatgaactt		4144
136	cagcatccaa	gtttatgaat	gacagtagtc	acacatagtg	ctgtttatat	agtttaggag		4204
137	taagagtgtt	gttttttatt	cagatttggg	aaatccattc	cattttgtga	attgtgacaa		4264
138	ataacagcag	tggaataagt	atgtgcttag	aattgtgaaa	gaattagcag	taaaatacat		4324
139	gagataaaga	cctcaagaag	ttaaaagata	cttaattctt	gccttatacc	tcacttcatt		4384
140	ctgtaaattt	gaaaaaaaaa	cgtggatacc	tgatatacct	tggttctttt	gagaatttaa		4444
141	gagaaattaa	atctgaataa	ataattcttc	ctgttcactg	gctcatttat	tttccattca		4504
142	ctcagcatct	gctctgtgg						4523
143	<210>	SEQ ID NO 2						
144	<211>	LENGTH: 314						

Input Set: I692401.RAW

```

145 <212> TYPE: PRT
146 <213> ORGANISM: Homo sapiens
147 <400> SEQUENCE: 2
148 Met Pro Leu Glu Gln Arg Ser Gln His Cys Lys Pro Glu Glu Gly Leu
149      1              5              10              15
150 Glu Ala Gln Gly Glu Ala Leu Gly Leu Val Gly Ala Gln Ala Pro Ala
151      20              25              30
152 Thr Glu Glu Gln Glu Thr Ala Ser Ser Ser Ser Thr Leu Val Glu Val
153      35              40              45
154 Thr Leu Arg Glu Val Pro Ala Ala Glu Ser Pro Ser Pro Pro His Ser
155      50              55              60
156 Pro Gln Gly Ala Ser Thr Leu Pro Thr Thr Ile Asn Tyr Thr Leu Trp
157      65              70              75              80
158 Ser Gln Ser Asp Glu Gly Ser Ser Asn Glu Glu Gln Glu Gly Pro Ser
159      85              90              95
160 Thr Phe Pro Asp Leu Glu Thr Ser Phe Gln Val Ala Leu Ser Arg Lys
161      100             105             110
162 Met Ala Glu Leu Val His Phe Leu Leu Lys Tyr Arg Ala Arg Glu
163      115             120             125
164 Pro Phe Thr Lys Ala Glu Met Leu Gly Ser Val Ile Arg Asn Phe Gln
165      130             135             140
166 Asp Phe Phe Pro Val Ile Phe Ser Lys Ala Ser Glu Tyr Leu Gln Leu
167      145             150             155             160
168 Val Phe Gly Ile Glu Val Val Glu Val Val Arg Ile Gly His Leu Tyr
169      165             170             175
170 Ile Leu Val Thr Cys Leu Gly Leu Ser Tyr Ala Gly Leu Leu Gly Asp
171      180             185             190
172 Asn Gln Ile Val Pro Lys Thr Gly Leu Leu Ile Ile Val Leu Ala Ile
173      195             200             205
174 Ile Ala Lys Glu Gly Asp Cys Ala Pro Glu Glu Lys Ile Trp Glu Glu
175      210             215             220
176 Leu Ser Val Leu Glu Ala Ser Asp Gly Arg Glu Asp Ser Val Phe Ala
177      225             230             235             240
178 His Pro Arg Lys Leu Thr Gln Asp Leu Val Gln Glu Asn Tyr Leu
179      245             250             255
180 Glu Tyr Arg Gln Val Pro Gly Ser Asp Pro Ala Cys Tyr Glu Phe Leu
181      260             265             270
182 Trp Gly Pro Arg Ala Leu Val Glu Thr Ser Tyr Val Lys Val Leu His
183      275             280             285
184 His Leu Leu Lys Ile Ser Gly Gly Pro His Ile Pro Tyr Pro Pro Leu
185      290             295             300
186 His Glu Trp Ala Phe Arg Glu Gly Glu Glu
187      305             310
188 <210> SEQ ID NO 3
189 <211> LENGTH: 9
190 <212> TYPE: PRT
191 <213> ORGANISM: Homo sapiens
192 <400> SEQUENCE: 3
193 Glu Val Val Arg Ile Gly His Leu Tyr
194      1              5

```

Input Set: I692401.RAW

```
195 <210> SEQ ID NO 4
196 <211> LENGTH: 9
197 <212> TYPE: PRT
198 <213> ORGANISM: Homo sapiens
199 <400> SEQUENCE: 4
200     Val Arg Ile Gly His Leu Tyr Ile Leu
201         1             5
202 <210> SEQ ID NO 5
203 <211> LENGTH: 10
204 <212> TYPE: PRT
205 <213> ORGANISM: Homo sapiens
206 <400> SEQUENCE: 5
207     Val Val Arg Ile Gly His Leu Tyr Ile Leu
208         1             5             10
209 <210> SEQ ID NO 6
210 <211> LENGTH: 8
211 <212> TYPE: PRT
212 <213> ORGANISM: Homo sapiens
213 <400> SEQUENCE: 6
214     Arg Ile Gly His Leu Tyr Ile Leu
215         1             5
216 <210> SEQ ID NO 7
217 <211> LENGTH: 24
218 <212> TYPE: DNA
219 <213> ORGANISM: Homo sapiens
220 <400> SEQUENCE: 7
221     ggggtccaaat tgggtggcttt cact
222 <210> SEQ ID NO 8
223 <211> LENGTH: 22
224 <212> TYPE: DNA
225 <213> ORGANISM: Homo sapiens
226 <400> SEQUENCE: 8
227     gaagaatgcc tcatgatccc ca
228 <210> SEQ ID NO 9
229 <211> LENGTH: 9
230 <212> TYPE: PRT
231 <213> ORGANISM: Homo sapiens
232 <400> SEQUENCE: 9
233     Glu Ala Asp Pro Thr Gly His Ser Tyr
234         1             5
235 <210> SEQ ID NO 10
236 <211> LENGTH: 9
237 <212> TYPE: PRT
238 <213> ORGANISM: Homo sapiens
239 <400> SEQUENCE: 10
240     Ser Ala Tyr Gly Glu Pro Arg Lys Leu
241         1             5
242 <210> SEQ ID NO 11
243 <211> LENGTH: 9
244 <212> TYPE: PRT
```

Input Set: I692401.RAW

Line ? Error/Warning

Original Text
